ABSTRACT

1   A print method converts page description data specifying
2   a print document into pixel data. The print system includes a
3   central processing unit, a first memory and a second memory
4   that is smaller but faster than the first memory. The method
5   extracts a display list from the page description data (503),
6   allocates space within the first memory to serve as a page
7   buffer and divides the page buffer within the first memory
8   into a plurality of sub-bands. Each sub-band is smaller than
9   the second memory. For each sub-band the method renders pixels
10 of a current sub-band into the second memory (506). When the
11 sub-band is completely rendered, the method transfers pixel
12 data from the second memory to the current sub-band of the
13 page buffer (509). When all sub-bands are rendered, the page
14 is printed by transfer of data from the page buffer to a print
15 engine (512). The central processing unit and the second
16 memory are preferably disposed on the same integrated circuit.